BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

KODIGEHALLI SUB DIVISION

WARD 7: BYATARAYANAPURA

Name of work:- Construction of RCC drain at Chinnappa Layout in ward No.07, Byatarayanapura

Estimated Cost:- 15.00 Lakhs.

P-CODE:- P-3296.

Job sheet:- 007-18-000084.

Name of Work:-Construction of RCC drain at Chinnappa Layout in ward No.07, Byatarayanapura

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	RATE	AMOUNT
1	2	4	5	6	7	8	9	10
1	KSRRB 300-1. Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.. Pg No.143.Item No.19.1)							
	RCC DRAIN							
	Chinnappa layout main road	1	135.00	0.80	0.80	86.40		
	Desilting of drains							
	main road	1	122.00	0.60	0.60	43.92		
	main road	1	60.00	0.60	0.60	21.60		
	For Pit	17	3.14*0.8*0.8		1.50	25.50		
	(3.14x0.6x0.6)/4 x 3.0		4					
	Basic Rate:	**130.00**		**TOTAL**		**177.42**	137.80	24449.00
	Area Weightage @ 6%	7.80						
	Total	**137.80**						
2	KSRB 4-1.3: Providing and laying in position plain cement concrete of nominal mix 1:4:8with OPC @ 180 kgs, using 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and including cost of all materials labour, HOM of machinery, curing complete as per specification . (Pg.No.13, It.4.3)							
	RCC DRAIN- BOTTOM							
		1.00	135.00	0.80	0.15	16.20		
	Basic Rate:	5102.00				**16.20**	5408.12	87612.00
	Area Weightage @ 6%	306.12						
	Total	**5408.12**						
3	KSRB 4.2.2: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastizers @ 3lts confirming to IS 9103-1999 RE affirmed - 2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, stair case lintels, retaining walls return walls, walls(anythickness) including attached plasters columns piers abutments pillars posts struts butresses string or lacing courses parapets copings, bed blocks , plain windows cills fillets etc., including cost of all materials labour HOM of machinery curing complete as per specifications. Seocifications No. KBS 4.1,4.6 (Page NO. 14, Item NO. 4.11)							
	Bottom							

		1.00	135.00	0.80	0.15	16.20		
	Side Wall							
		2.00	135.00	0.15	0.45	18.23		
						34.43		
	Coping on side walls	2.00	122.00	0.15	0.10	3.66		
		2.00	60.00	0.15	0.10	1.80		
						5.46		
						39.89	5998.54	239252.00
	Basic Rate:	5659.00						
	Area Weightage @ 6%	339.54						
	Total	**5998.54**						
4	Providing **TMT Steel Reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.(Page No.18, Item No.4.46.2)							
	Reinforcement for side wall					34.43		
		At 55 Kg % per cum				**1.89**	75223.96	142428.00
	Basic Rate:	70966.00						
	Area Weightage @ 6%	4257.96						
	Total	**75223.96**						
5	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / **rectangular slabs /side walls** polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.(Page No.16, Item NO.4.32)							
	SIDE WALL							
		4	135.00		0.45	243.00		
						243.00	483.36	117457.00
	Basic Rate:	456.00						
	Area Weightage @ 6%	27.36						
	Total	**483.36**						
6	Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfications (Data Rate Approved)							
	DATA RATE							
	Covering Slab							
	New drain	1	225	0.60	0.90	121.50		
	Old drain	1	118	0.60	0.90	63.72		
		1	100	0.60	0.90	54.00		

				3		**239.22**	2100.00	502362.00
7	Providing and fixing MS Grating 260x260 mm(Page No.VIII, Sl No.237, code No.0771)							
	For shoulder drians					50.00		
		50				**50.00**	94.34	4717.00
	Basic Rate:	89.00						
	Area Weightage @ 6%	5.34						
	Total	**94.34**						
8	KSRRB M2900-2.1. Laying Reinforced cement concrete pipe NP2 / prestressed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets complete as per specifications. MORTH Specification No. 2900 B. 1200 mm dia MORTH Specification No. 1000,2300 Page No. 255, Item No. 34.7.8, PWD SR 2018-19							
	For Pit	17	1.5			25.50		
	(3.14x0.6*0.6)/4					**25.50**	5976.28	152395.14
	Basic Rate:	5638.00						
	Area Weightage @ 6%	338.28						
	Total	**5976.28**						
9	Providing 100mm and down size nominal size. (Pg No.I.Item No.23)							
	For Pit	20	0.28	0.40		2.26		
	(3.14x0.6*0.6)/4					**2.26**	987.62	2232.81
10	Providing 40mm and down size nominal size (Pg No.II.Item No.25)							
	For Pit	20	0.28	0.20		1.13		
	(3.14x0.6*0.6)/4					**1.13**	1091.43	1233.75
11	Providing 20mm and down size nominal size (Pg No.II.Item No.28)							
	For Pit	20	0.28	0.15		0.85		
	(3.14x0.6*0.6)/4					**0.85**	1091.43	925.31
12	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 118, item No. 17.1)							
	Basic Rate	**57.00**				177.42	94.34	16738.00
	Rs. 2.50 Tonne Km.							
	Average Weight of earth 1.28 Tonne/Km.							
	For 10 Km							
	Rs.2.50X1.28TonneX10Km	**32.00**						
	Total	**89.00**						
	Add Area Weightage6%	**5.34**						
		94.34						
13							**Sub Total**	1291802.02

14			**Add GST 12% Charges**	155016.24
15			**Add KRIDL Charges 3%**	38754.06
16			**Add Labour cess charges 1%**	12918.02
17			**Miscelleneous charges**	1509.66
18			**Total**	1500000.00

1)This is certified that the work spot comes under BBMP limits only.

2) The work spot is inspected by me

3) The items Provided in the Estimate are quite Essential

4)The rates are as per CSR of 2018-19 year of PWD Bangalore Circle.

Asst.Engineer
Ward no.7

Asst.Exe.Engineer
Kodigehalli Sub-division
B.B.M.P.

Executive Engineer
Byatrayanapura Division
B.B.M.P.

Administrative Approval
Accorded For Rs.15 lakhs only
Head of A/C. P3296
CER NO : 112 Dt: 08.01.2019

TA

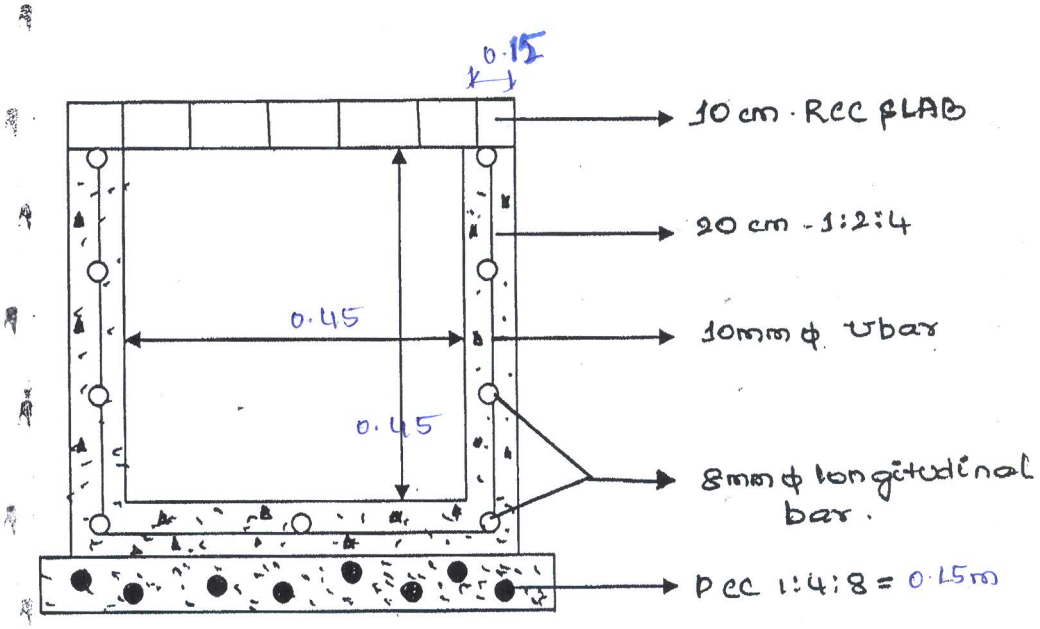
EE (YNK)

TECHNICAL SANCTION
Accorded For Rs. Fifteen lakhs only
Head of A/c P-3296
Div. Ref. No. 101/18-19 Date 01/02/19

AE

EE(BTP) 01/02

Name of work: Construction of RCC drain at Chinnappa layout in ward no. 07, byatarayanapura:

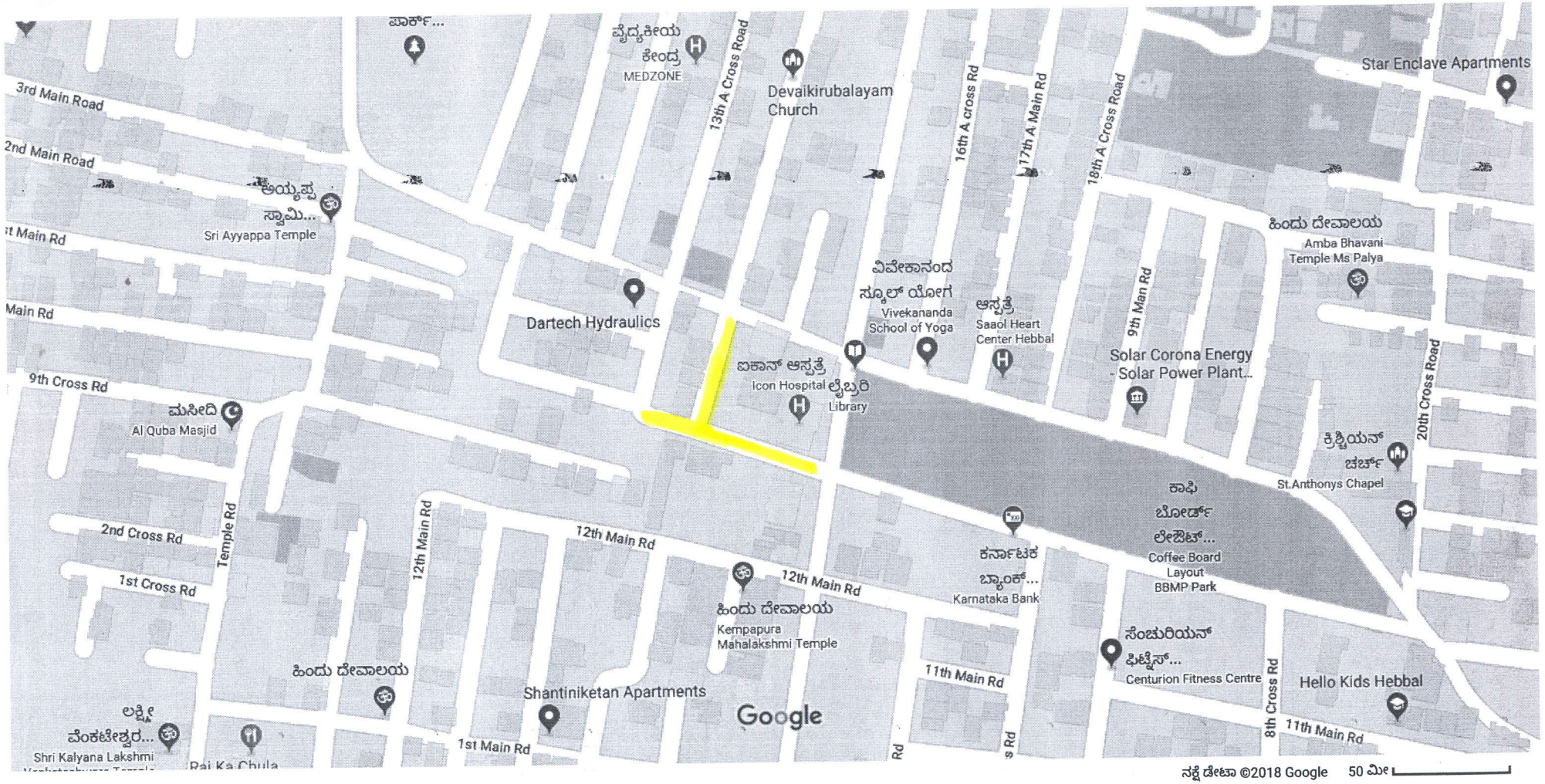


CROSS SECTION OF RCC DRAIN

Asst Engg. N.D.
Assistant Engineer
WardNo.07

Assistant Executive Engineer
Kodigehalli Sub Divsion

Google Construction of RCC drain at Chinnappa Layout in ward No.07, Byatarayanapura



Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

3/1/2018, 4:32 PM